

IN RE: PETITION FOR SPECIAL HEARING
1,545' N of Old Court Road,
3500' SW of Ridge Road
2nd Election District
1st Councilmanic District

BEFORE THE
DEPUTY ZONING COMMISSIONER
OF BALTIMORE COUNTY
Case No. 88-245-SPH

Edrich Farms
Petitioner

FINDINGS OF FACT AND CONCLUSIONS OF LAW

The Petitioner herein requests a special hearing to approve an amendment to the site plan approved and no special exception granted in Case No. 84-204-X to permit the erection of a 270-foot tall tower, as more particularly described in Petitioner's Exhibit 1.

The Petitioner, by John B. Howard, Esquire, appeared and testified. Robert T. Voss and Harry H. Fischer, representatives for Bell Atlantic Mobile Systems, Inc., Lessee of the subject property, appeared, testified, and were also represented by John B. Howard, Esquire. There were no Protestants.

Testimony indicated that the subject property consists of two tracts of land with a combined total of 21.28 acres +/-, zoned R.C.3, and located in the 9000 Block of Old Court Road. The property is currently vacant with the exception of an existing 167-foot monopole tower, which was constructed as a result of the special exception granted in Case No. 84-204-X. Bell Atlantic Mobile, Inc., Lessee of the property, is proposing to construct a new 270-foot high, three-legged lattice radio antenna tower to transmit and receive telephone communications in the local vicinity. The existing tower will be removed. The Petitioner testified that the existing signal strength does not meet the service requirements within the area. Further testimony indicated that the new tower will provide adequate signal quality by means of the additional height.

Mr. Fischer, general manager of the real estate division for Bell Atlantic Mobile Systems, Inc., testified that a diligent search was made for a loca-

tion within the zone to mount the existing tower in an effort to make the existing system work to its maximum and to avoid additional towers. The only two existing towers in the area are available; one is owned by the City which will not permit co-use; the other is controlled by a competitor.

The Petitioner contends that the proposed location will help meet the projected growth and marketing demand in the Owings Mills growth center. Testimony further indicated that the nearest property line is 550 feet from the proposed tower; that the structure is located on 21.82 acres; and that the structure shall be enclosed within a chain link fence of approximately 8' in height. Petitioner introduced as Exhibit 4, a landscape plan which shall be submitted to the Office of Current Planning for approval; Petitioner also submitted lab results of a study done regarding compliance with Environmental Protection Agency standards relative to radiation emissions (see Petitioner's Exhibit 3c); Petitioner indicated that E.P.A. requirements shall be met at all times. Petitioner agreed that the structure shall be removed when the use terminates; the Petitioner agreed to provide every 5 years, or sooner in the event of substantial damage, certification by a registered professional engineer that the aforementioned structure meets all safety requirements. Petitioner further agreed to comply with any changes in the safety requirements or to maintain the safety thereof. Petitioner agreed that no white strobeoscopic lights would be permitted on the property. Petitioner introduced as Petitioner's Exhibit 3 an Environmental Impact Statement (E.I.S.).

Mr. Fischer testified that in his experience, and in his opinion, the proposed use will not have a substantial adverse impact on the surrounding property values, park lands or open space.

All of the above testimony was given by Petitioner to evidence that the proposed structure is not in violation of Section 502.7C, 1 through 11 of the Baltimore County Zoning Regulations (B.C.Z.R.).

The Petitioner seeks to amend the site plan approved in Case No. 84-204-X pursuant to Section 500.7 of the B.C.Z.R.

It is clear from the testimony and evidence presented at the hearing that to grant the Petitioner's request would not be contrary to the spirit and intent of the B.C.Z.R. and would not result in substantial detriment to the public health and safety. Subsequent to the hearing, the E.I.S. report was reviewed by Robert C. Merrey, Jr. of Baltimore County's Bureau of Environmental Protection and Resource Management. After a review of the comments prepared by Mr. Merrey and the letter dated February 4, 1988 to Mr. Merrey from Robert T. Voss, a professional engineer with Bell Atlantic, it appears that the requirements of Section 502.7(C)(10) have been met. In the opinion of the Deputy Zoning Commissioner, the requirements of Section 502.1 and Section 502.7 of the B.C.Z.R. have been met by Petitioner.

Pursuant to the advertisement, posting of the property, and public hearing on this Petition held, and for the reasons given above, the relief requested in the special hearing should be granted.

THEREFORE, IT IS ORDERED by the Deputy Zoning Commissioner for Baltimore County this 17th day of February, 1988 that an amendment to the site plan and special exception in Case No. 84-204-X to permit the erection of a 270' tower, in accordance with Petitioner's Exhibit 1, be approved, and as such, the Petition for Special Hearing is hereby GRANTED, subject, however, to the following restrictions:

- 1) The Petitioner may apply for his building permit and be granted same upon receipt of this Order; however, Petitioner is hereby made aware that proceeding at this time is at his own risk until such time as the applicable appellate process from this Order has expired. If, for whatever reason, this Order is reversed, the Petitioner would be required to return, and be responsible for returning, said property to its original condition.
- 2) Petitioner shall comply at all times with all requirements of Section 502.7 of the B.C.Z.R.

3) Petitioner shall submit a landscape plan to the Office of Current Planning for approval within 30 days of the date of this Order. The landscape plan shall comply with the requirements as set forth in the Baltimore County Landscaping Manual.

4) The letter dated February 4, 1988 to Robert Merrey from Robert Voss of Bell Atlantic Mobile Systems shall be attached and made a part of the E.I.S.

5) The granting of the amendment is contingent upon Bell Atlantic Mobile Systems supplying to the Bureau of Environmental Protection and Resource Management and the Office of Zoning, data evidencing that E.P.A. standards and guidelines relating to radiation emissions have been met, within 120 days of the installation of the new tower. Thereafter, proof of compliance with the requirements of Section 502.7(C)(10) shall be supplied to the Office of Zoning, within 20 days by the Petitioner and Lessee upon request by either the Office of Zoning or the Bureau of Environmental Protection and Resource Management.

ANN M. NASTAHOVICZ
Deputy Zoning Commissioner
of Baltimore County

PETITION FOR SPECIAL HEARING TO THE ZONING COMMISSIONER OF BALTIMORE COUNTY:

The undersigned, legal owner(s) of the property situate in Baltimore County and which is described in the description and plat attached hereto and made a part hereof, hereby petition for a Special Hearing under Section 500.7 of the Baltimore County Zoning Regulations to determine whether or not the Zoning Commissioner and/or Deputy Zoning Commissioner should approve an amendment to the site plan and special exception granted in Case No. 84-204-X.

Zoning Commissioner Case No. 84-204-X

Property is to be posted and advertised as prescribed by Zoning Regulations.

I, or we, agree to pay expenses of the above Special Hearing advertising, posting, etc., upon filing of this Petition, and further agree to and are to be bound by the zoning regulations and restrictions of Baltimore County adopted pursuant to the Zoning Law for Baltimore County.

I/We do solemnly declare and affirm, under the penalties of perjury, that we are the legal owner(s) of the property which is the subject of this Petition.

LESSEE:
Bell Atlantic Mobile Systems, Inc.
(Type or Print Name)
By: John B. Howard
Signature Harry H. Fischer
180 Mount Airy Road
Address
Basking Ridge, NJ 07820
City and State
Attorney for Petitioner:
John B. Howard
(Type or Print Name)
Signature
210 Allegheny Avenue
Address
Towson, Maryland 21204
City and State
Attorney's Telephone No.: 823-4111

Legal Owner(s):
Edrich Farms, Inc.
(Type or Print Name)
By: Edward F. Stanfield
Signature
Richard A. August
Ewald J. August & Shirley A. August
(Type or Print Name)
Signature
9038 Old Court Road
Address
Baltimore, Maryland 21207
City and State
Name, address and phone number of legal owner, contract purchaser or representative to be contacted
John B. Howard
Name 210 Allegheny Avenue
Towson, Maryland 21204
Address
Phone No.

KIDDE CONSULTANTS, INC.

Subsidiary of Kidde, Inc.
1100 West Street Suite 100
Laurel MD 20707
(301) 953-1821
(301) 792-8086

July 16, 1987

DESCRIPTION OF 21.8166 ACRE
PORTION OF
EDRICH FARMS, INC. PROPERTY

EWARD J. AUGUST PROPERTY

Beginning for the same at the centerline intersection of Old Court Road and Ridge Road thence with said centerline of Old Court Road 3500 feet in a southwesterly direction to a point on said centerline; thence leaving said Old Court Road

- 1) North 13 degrees 27 minutes 16 seconds East a distance of 825.00 feet to a point, thence
- 2) North 18 degrees 51 minutes 07 seconds East a distance of 174.60 feet to a point, thence
- 3) North 19 degrees 58 minutes 03 seconds East a distance of 243.86 feet to a point, thence
- 4) North 22 degrees 28 minutes 52 seconds East a distance of 301.29 feet to a point, thence
- 5) North 69 degrees 03 minutes 18 seconds West a distance of 24 feet to a point on the outline of the lease area; thence running so as to describe the parcel of land in the lease area; by a curve to the right
- 6) having a radius of 550.00 feet for an arc length of 3455.75 feet, to the point of beginning of the lease area.

Containing 21.8166 acres of land more or less within the lease area.

Being part of the lands which by deed dated August 3, 1959 was conveyed by Edward F. Stanfield and Marjorie R. Stanfield, to Edrich Farms, Inc., and recorded among the Land Records of Baltimore County, Maryland in Liber 3629 at Folio 393 and part of the lands conveyed by Bernard Kurpek to Ewald J. August and Shirley A. August, and recorded among the aforesaid Land Records in Liber 6766, at Folio 121.

February 17, 1988

John B. Howard, Esquire
210 Allegheny Avenue
Towson, Maryland 21204

RE: Petition for Special Hearing
1,545' N of Old Court Road, 3500' SW of Ridge Road
2nd Election District, 1st Councilmanic District
Edrich Farms - Petitioner
Case No. 88-245-SPH

Dear Mr. Howard:

Enclosed please find the decision rendered on the above-referenced case. The Petition for Special Hearing has been Granted, subject to the restrictions noted in the attached Order.

In the event the decision rendered is unfavorable to any party, please be advised that any party may file an appeal to the County Board of Appeals. For further information on filing an appeal, please contact this office.

Very truly yours,

ANN M. NASTAHOVICZ
Deputy Zoning Commissioner
of Baltimore County

AMN:bjc

Enclosure

cc: People's Counsel

File

BALTIMORE COUNTY
OFFICE OF PLANNING & ZONING
TOWSON, MARYLAND 21204
494-3353
J. ROBERT HAINEZ
ZONING COMMISSIONER

John B. Howard, Esquire
210 Allegheny Avenue
Towson, Maryland 21204

RE: Petition for Special Hearing
1,545' N of Old Court Road, 3500' SW of Ridge Road
2nd Election District, 1st Councilmanic District
Edrich Farms - Petitioner
Case No. 88-245-SPH

Dear Mr. Howard:

This is to advise you that \$57.81 is due for advertising and posting of the above property. This fee must be paid before an Order is issued.

THIS FEE MUST BE PAID AND THE ZONING SIGN AND POST RETURNED ON THE DAY OF THE HEARING OR THE ORDER SHALL NOT BE ISSUED.

Do not remove sign from property from the time it is placed by the Baltimore County, Maryland Office of Planning & Zoning.

BALTIMORE COUNTY, MARYLAND
OFFICE OF FINANCE - REVENUE DIVISION
MISCELLANEOUS CASH RECEIPT
No. 45905
DATE 1/19/88 ACCOUNT R-01-615-000
AMOUNT \$ 57.81
RECEIVED FROM Edrich Farms
FOR Pottery Production
21207
Treasurer
J. Jersey 07940

CERTIFICATE OF POSTING
ZONING DEPARTMENT OF BALTIMORE COUNTY
Towson, Maryland

88-245-SPH

District: 2nd Date of Posting: December 21, 1987

Posted for: Special Hearing
Petitioner: Edrich Farms

Location of property: 1545 N. Old Court Rd., 3500' SW of Ridge Rd.

Location of Sign: North side of Old Court Rd. at right of way to subject property

Remarks: See above

Posted by: J. J. [Signature] Date of return: December 30, 1987

Number of Signs: 1

CERTIFICATE OF PUBLICATION

TOWSON, MD. Dec 17, 1987

THIS IS TO CERTIFY, that the annexed advertisement was published in THE JEFFERSONIAN, a weekly newspaper printed and published in Towson, Baltimore County, Md., appearing on Dec 17, 1987

THE JEFFERSONIAN,
Susan Linder O'Brien
Publisher

NOTICE OF HEARING
The Zoning Commission of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County, will hold a public hearing on the property described herein at Room 106 of the County Office Building, located at 111 W. Chesapeake Avenue in Towson, Maryland, on Wednesday, January 6, 1988 at 2:00 PM.

CERTIFICATE OF PUBLICATION

Pikesville, Md., Dec. 16, 1987

THIS IS TO CERTIFY, that the annexed advertisement was published in the NORTHWEST STAR, a weekly newspaper published in Pikesville, Baltimore County, Maryland before the 17th day of December, 1987

the first publication appearing on the 16th day of December, 1987

the second publication appearing on the 17th day of December, 1987

the third publication appearing on the 18th day of December, 1987

THE NORTHWEST STAR
Jon Berle
Manager

Cost of Advertisement \$16.00

RE: PETITION FOR SPECIAL HEARING BEFORE THE ZONING COMMISSIONER
1545' N of Old Court Rd., 3500' SW of Ridge Rd., 2nd District OF BALTIMORE COUNTY
EDRICH FARMS, Petitioner Case No. 88-245-SPH

ENTRY OF APPEARANCE

Please enter the appearance of the People's Counsel in the above-captioned matter. Notices should be sent of any hearing dates or other proceedings in this matter and of the passage of any preliminary or final Order.

Peter Max Zimmerman
Peter Max Zimmerman
Deputy People's Counsel for Baltimore County
Room 223, Court House
Towson, Maryland 21204
494-2188

I HEREBY CERTIFY that on this 24th day of November, 1987, a copy of the foregoing Entry of Appearance was mailed to John B. Howard, Esquire, 210 Allegheny Ave., Towson, MD 21204, Attorney for Petitioner; and Bell Atlantic Mobile Systems, Inc., Harry H. Fischer, 180 Mount Airy Rd., Basking Ridge, N. J. 07920, Lessee.

Peter Max Zimmerman
Peter Max Zimmerman

NOTICE OF HEARING

The Zoning Commission of Baltimore County, by authority of the Zoning Act and Regulations of Baltimore County will hold a public hearing on the property identified herein in Room 106 of the County Office Building, located at 111 W. Chesapeake Avenue in Towson, Maryland as follows:

Petition for Special Hearing
1545' N of Old Court Road, 3500' SW of Ridge Road
2nd Election District, 1st Councilmanic District
Edrich Farms - Petitioner
Case No. 88-245-SPH
Wednesday, January 6, 1988 at 2:00 PM

In the event that this Petition is granted, a building permit may be issued within the thirty (30) day appeal period. The Zoning Commissioner will, however, entertain any request for a stay of the issuance of said permit during this period for good cause shown. Such request must be in writing and received in this office by the date of the hearing set above or presented at the hearing.

BALTIMORE COUNTY, MARYLAND
OFFICE OF FINANCE - REVENUE DIVISION
CELLAMOUR, MD RECEIPT

No. 41567

DATE: 1/17/88 ACCOUNT: 01-215

AMOUNT: 100.00

RECEIVED BY: [Signature]

FOR: Edrich Farms Special Hearing #91

8103*****1000014 50381

CELLAMOUR, MD RECEIPT

VALIDATION OR SIGNATURE OF CLERK

J. ROBERT HAINES
Zoning Commissioner of Baltimore County

LAW OFFICES
COOK, HOWARD, DOWNES & TRACY
210 ALLEGHENY AVENUE
TOWSON, MARYLAND 21204

TELEPHONE: (301) 823-4111
TELECOPIER: (301) 821-0147
DIRECT DIAL NUMBER: (301) 494-9162
August 8, 1988

JUDITH A. ARNOLD
DEBORAH C. DOPKIN
ANTHONY GALLOP
J. MICHAEL BRENNAN
N. BARRY PETERSON, JR.
NATHAN L. KOTZ
JAMES K. MACALISTER
RIGBY J. H. SMITH
NEWTON B. FOWLER, II
MARK E. SMITH
JAMES D. C. DOWNES
(1908-1978)

Hand Delivery

Ms. Ann M. Nastarowicz,
Deputy Zoning Commissioner
of Baltimore County
111 W. Chesapeake Avenue
Towson, Maryland 21204

Re: Case No.: 88-245-SPH
Edrich Farms, Petitioner
Bell Atlantic Mobile Systems, Inc. - Lessee

Dear Ms. Nastarowicz:

Pursuant to Restriction No. 5 set forth in the Findings of Fact and Conclusions of Law dated February 17, 1988 in connection with the above-referenced case, enclosed please find a report which is also being provided to the Bureau of Environmental Protection and Resource Management evidencing that applicable standards and guidelines relating to radiation emissions are being met.

Very truly yours,
Robert A. Hoffman
Robert A. Hoffman

RAH:AAH:bw
cc: J. James Dieter, Special Assistant
Robert C. Merrey, Jr.
Robert T. Voss

AT&T
AT&T Bell Laboratories
600 Mountain Avenue
Murray Hill, NJ 07974-2070
201 582-3000

July 13, 1988

Mr. E. Quinn
Bell Atlantic Mobile Systems
180 Mt. Airy Road
Basking Ridge, NJ 07920

Dear Mr. Quinn:

Enclosed please find a report which describes the results of the electromagnetic field measurements made in the vicinity of the Randallstown, MD cellular radio cell-site antennas. The measurements indicate that the maximum levels in publicly accessible areas are well below any current or foreseeable health standards, even for a significant increase in the number of transmitters at the site.

I hope this report suffices for the intended purpose. If you need additional information please call.

Sincerely,
R. C. Petersen
R. C. Petersen

Enclosure
As above

Copy to
M. Weiss - AT&T Bell Laboratories
G. M. Wilkening - " " "
B. Janish - AT&T

AT&T
AT&T Bell Laboratories

Subject: BAMS Woodlawn, MD
Cell-Site Measurements

Date: July 13, 1988

From: R. C. Petersen
MH 79152
1F101C, x6442

P. A. Testagrossa
MH 79162
1F101J, x7338

Electric field strength (E-field) measurements were made in the vicinity of the Bell Atlantic Mobile Systems (BAMS) cellular radio cell-site located off Old Court Road, Woodlawn, Baltimore County, MD on June 1, 1988. The purpose of these measurements was to characterize the electromagnetic environment, in areas accessible to BAMS employees and the general public, associated with the operation of the cell-site transmitters.

The cell-site consists of a 270 ft. lattice type tower, on top of which is mounted a triangular platform. The transmitting and receiving antennas are affixed to the platform rail. The antennas are co-linear arrays approximately 14 ft. in length. The radiation pattern is similar to that of a dipole, i.e., omnidirectional in the horizontal plane with most of the energy directed toward the horizon. The gain of each antenna is approximately 10 db with respect to a dipole and the transmitted power is approximately 10 w per channel. The transmitters operate at frequencies between 850 and 880 MHz.

E-field measurements were made inside of the radio hut using a Holaday Industries Isotropic Broadband Field Strength Meter, Model HI-3001 with a Model GRF-01 E-field Probe and a Model HSE-01 High Sensitivity E-field Probe. The results of these measurements varied from approximately 90 to 200 V/m at locations readily accessible to employees servicing the equipment. The highest levels were measured approximately 15 cm from the channel combining networks with five transmitters operating simultaneously. When additional transmitters are operating, the levels would increase but not in direct proportion to the number of transmitters since the combiners are distributed over an area approximately 4 ft. square.

Measurements were also made along the access road to the cell-site at 10 ft. intervals starting at a point 90 ft. from the center of the tower (the location of the gate of the facility) to 250 ft. The Holaday instrument with the high sensitivity probe was used for

these measurements. The number of transmitters operating at the time of each measurement was monitored by observing the spectrum analyzer display of a Hewlett Packard (HP) Model 8590A Counter-Lock System connected to an Electro-Metrics Model TDS-25 Calibrated Tunable Dipole Antenna. In order to separate the fields associated with the BAMS facility from the total electromagnetic environment (the Holaday instrument is a broadband device which responds uniformly to all signals within a frequency range of approximately 0.5 to 2000 MHz), the E-field measured with the Holaday instrument was compared with the cellular radio E-fields measured at the same point using the frequency selective spectrum analyzer/tuned dipole. As expected, the value obtained with the broadband probe was slightly higher than the values obtained with the spectrum analyzer/dipole since the probe was also responding to signals from the nearby AM radio broadcast antennas. Therefore, all values obtained with the high sensitivity probe were corrected to yield only the E-field associated with cellular radio transmissions. These values, corrected as above and averaged to represent the level associated with a single radio channel, are plotted as a function of radial distance from the center of the tower and are shown in Figure 1. The measurements were not made along a single radial (because of the configuration of the road) and, therefore, the radial distances from the tower had to be determined from the plot plan.

Measurements were also made at 200 ft. intervals along the access road from about 550 ft. to approximately 2000 ft. from the tower. These measurements were made using the above spectrum analyzer dipole system (see Figure 2 for typical output data) and were verified using the dipole antenna and a HP Model 8445B Auto-Tracking 1417/8552B/8555A Spectrum Analyzer with a Model 8445B Auto-Tracking Pre-Selector. (As a further check on the calibration of both systems, the measurement was repeated, at the farthest distance, using the dipole antenna and a recently calibrated (Incal, 5/20/88) Singer Stoddard Field Intensity Meter, Model NM37/57.) The results of these measurements are also plotted in Figure 1 (to the right of the dashed lower curve). As above, the radial distance from the center of the tower to the measurement point was determined from the plot plan. Since the antenna pattern is symmetrical in the horizontal plane, the measured fields are representative of those expected at the same distance along any single radial.

The results of the measurements made along the access road, as shown in the bottom curve of Figure 1, are the average of several channels and, therefore, are representative of the level for any single transmitter. The small squares at each measurement point (distances greater than 550 ft.) are the actual measured values for each operating transmitter with the solid line representing the corresponding average value for a single transmitter. The three curves shown above the measured values are the analytical values for 1, 16, 32 and 48 transmitters. As can be seen, and as has always been observed, the measured values are smaller than the calculated values.

The measured values can be compared with existing health standards and exposure guides. Although there are no enforceable federal standards for exposure of the general population, states such as NJ, MA and CT have adopted the radiation protection guide (RPG) found in the American National Standard "Safety levels with respect to human exposure to radio frequency electromagnetic fields 300 kHz to 100 GHz," or some variation of it.

The above RPG (which is the RPG used by NJ) is 2.8 mW/cm² at 850 MHz. The RPG used in MA and also recommended for public exposure by the National Council on Radiation Protection and Measurements (NCRP) is one-fifth of the ANSI RPG, i.e., 0.566 mW/cm². The lowest RPG being considered by the US Environmental Protection Agency (EPA) for recommended guidance for public exposure is 0.1 mW/cm². The most stringent RPG used anywhere in the world is the Soviet standard which, at 850 MHz, is 0.010 mW/cm². A comparison of the measured values with the most stringent of current RPGs is useful.

The highest level measured outside of the radio hut was approximately 0.00001 mW/cm² per transmitter occurring at a point approximately 210 ft. from the center of the tower. All levels measured at further or closer distances were significantly lower. The per channel values shown in the figure can be used to estimate the corresponding maximum exposure levels expected for a given number of transmitters by multiplying the measured levels (corresponding to the average single transmitter level) by the total number of transmitters at the site. Extrapolating from the measured levels is conservative since the assumption is made that all transmitters are on simultaneously which is rarely the case. A more conservative technique would be to calculate the value either from the free space transmission formula or by scaling the analytical values shown in Figure 1.

Applying the above, the maximum expected power density corresponding to 48 channels operating simultaneously for more than six minutes (the ANSI RPG is time averaged over a six minute interval; the NCRP RPG is time averaged over a 30 minute interval), is approximately 0.00043 mW/cm² and occurs at a point approximately 210 ft. from

*ANSI C95.1-1982, American National Standards Institute, New York, NY.

**NCRP - "Biological effects and exposure criteria for radiofrequency electromagnetic fields," NCRP Report No. 86, National Council on Radiation Protection and Measurements, Bethesda, MD.

***Federal Register, Vol. 51, No. 146, Wednesday, July 30, 1986.

The center of the tower. This value, which is based on an extrapolation of the measured values, is approximately 1/23 of the Soviet standard. Similar extrapolation based on the analytical values yields a maximum expected value of approximately 0.002 mW/cm² at a distance of approximately 150 ft. from the center of the tower. The latter value, which also corresponds to 48 channels operating simultaneously, is approximately equal to one-fifth of the Soviet standard. Both of these values are lower than any current or foreseeable RPGs.

The highest level measured within the building, i.e., approximately 200 V/m, when compared with the OSHA recommendation of 40,000 V/m for continuous exposure, indicates that occupational exposure should be of no concern.

Based on the measured and extrapolated levels of exposure to electromagnetic energy associated with operation of the aforementioned BMS facility, the maximum exposure at any accessible location in the local environment will be well below any current RPG even if the number of transmitters is increased significantly.

229CFR Part 1910.97.

R. C. Petersen
R. C. Petersen
P. A. Testagrossa
P. A. Testagrossa

88-245-077

BALTIMORE COUNTY OFFICE OF PLANNING & ZONING

County Office Building
111 W. Chesapeake Avenue
Towson, Maryland 21204

Your petition has been received and accepted for filing this
3rd day of November, 1987.

J. Robert Haines
J. ROBERT HAINES
ZONING COMMISSIONER

Petitioner: Edrich Farms, Inc. Received by: James P. Dyer
Petitioner's Attorney: John B. Howard, Esquire Chairman, Zoning Plans Advisory Committee

Bell Atlantic
Mobile Systems
180 Mount Airy Road
Basking Ridge, NJ 07009
(201) 962-2200

February 4, 1988

Mr. Robert Merrey
Baltimore County Air Quality Bureau
300 East Towson Town Boulevard
Towson, MD 21204

RE: SUPPLEMENTARY INFORMATION
Environmental Impact Statement
for Case No. 88-245-SP
Proposed 250 foot Radio Tower
Old Court Road
Woodlawn, Baltimore Co., MD
BMS Cell No. BLT-7,UV

Dear Mr. Merrey:

Per your request, this letter is to provide you with additional information regarding the above referenced project.

The proposed 250 foot tall tower will support five whip antennas. We will be using the Decibel Products Model No. DB-809 HXI (see attached data sheets for details). Three of the antennas will be used to transmit with the remaining two for receive.

The present configuration of radio equipment at the site includes a total of 16 channels: 1 set-up channel with an effective radiated power (ERP) of 50 watts, and 15 voice channels each with an ERP of 100 watts. The set-up channel is used continuously while the voice channels are used on demand which is intermittent. Should all channels be in use at one time the ERP would be 1550 watts; however, this energy is spread across 16 channels and should not be confused with a single channel broadcasting at the same total output.

A second group of 16 channels is planned for installation late in 1988 to handle the gradual rise in cellular traffic in the immediate vicinity.

Mr. Robert Merrey
Page 2
February 4, 1988

From the antenna data sheets you can see that the RF energy is vertically directional with the main beam oriented at 0°, which is horizontal towards the horizon. The energy emitted at the horizontal is equivalent to 100 watt ERP per channel; however, the overall power emitted by the antenna is only about 11 watts per channel. The transmit antennas will be located on a frame at the top of the tower at approximately 265 feet above grade. A person standing at the fence near the base of the tower could expect a power density exposure of 0.001 mW/cm² or less with all 32 channels in simultaneous use. It would be necessary to take field measurements to state an exact figure due to variations in individual antennas, power amps, coaxial cable, etc.

We can state with certainty that the increased tower height will reduce the present power density exposure at ground level. Should it be of interest, we can confirm the data following installation of the new tower.

Please do not hesitate to contact the writer should you have any additional questions.

Very truly yours,
BELL ATLANTIC MOBILE SYSTEMS, INC.

Robert T. Voss
Robert T. Voss, P.E.
Manager-Construction Engineering

RTV:kam

cc: J. Grlica
R. Harvey
H. Fischer
E. Quinn
R. Hoffmann, Esq.

BMS, WOODLAWN, MD ** CELL-SITE OMNIDIRECTIONAL ANTENNA POWER DENSITY VALUES

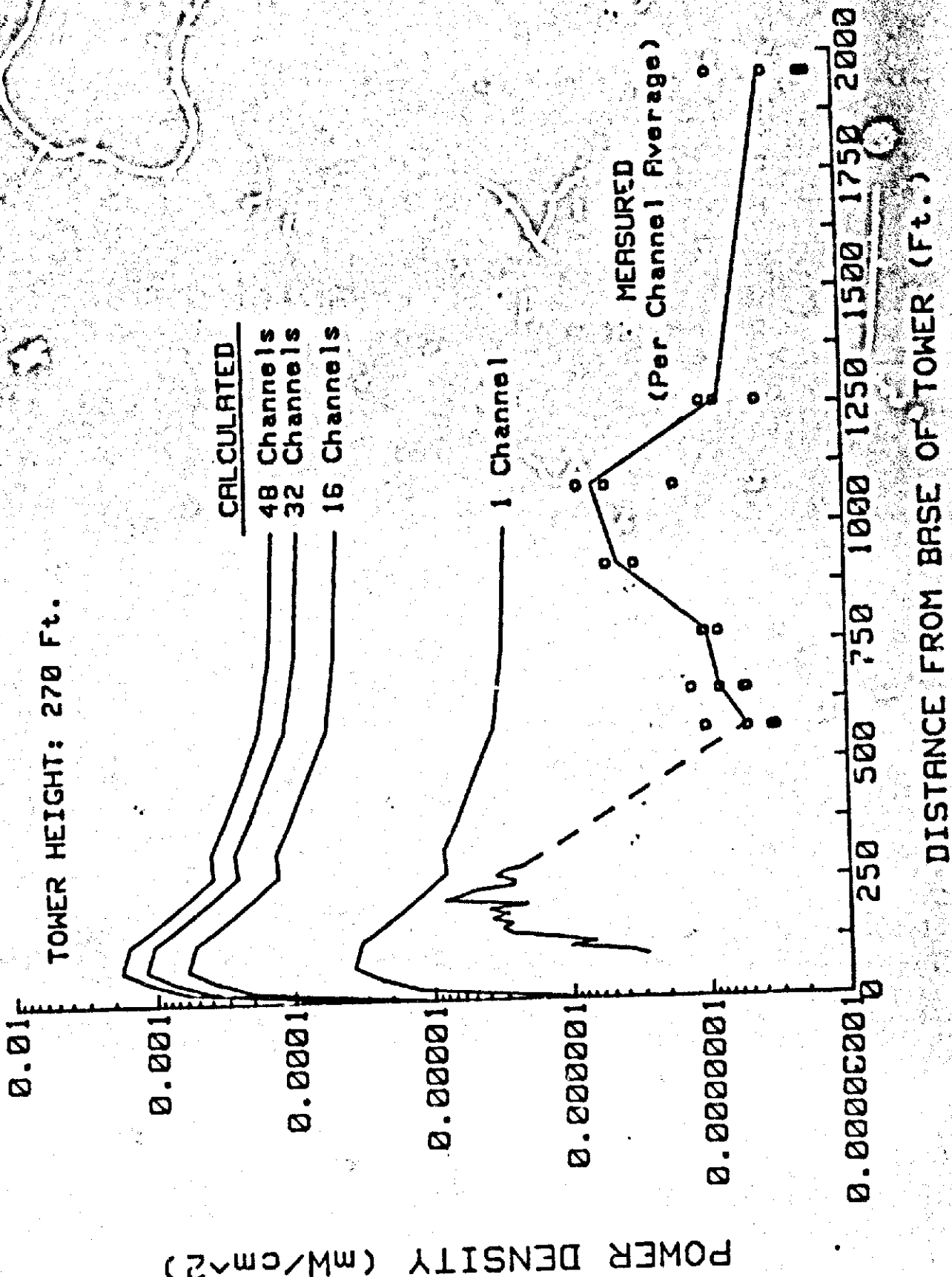


FIGURE 1

DISTANCE

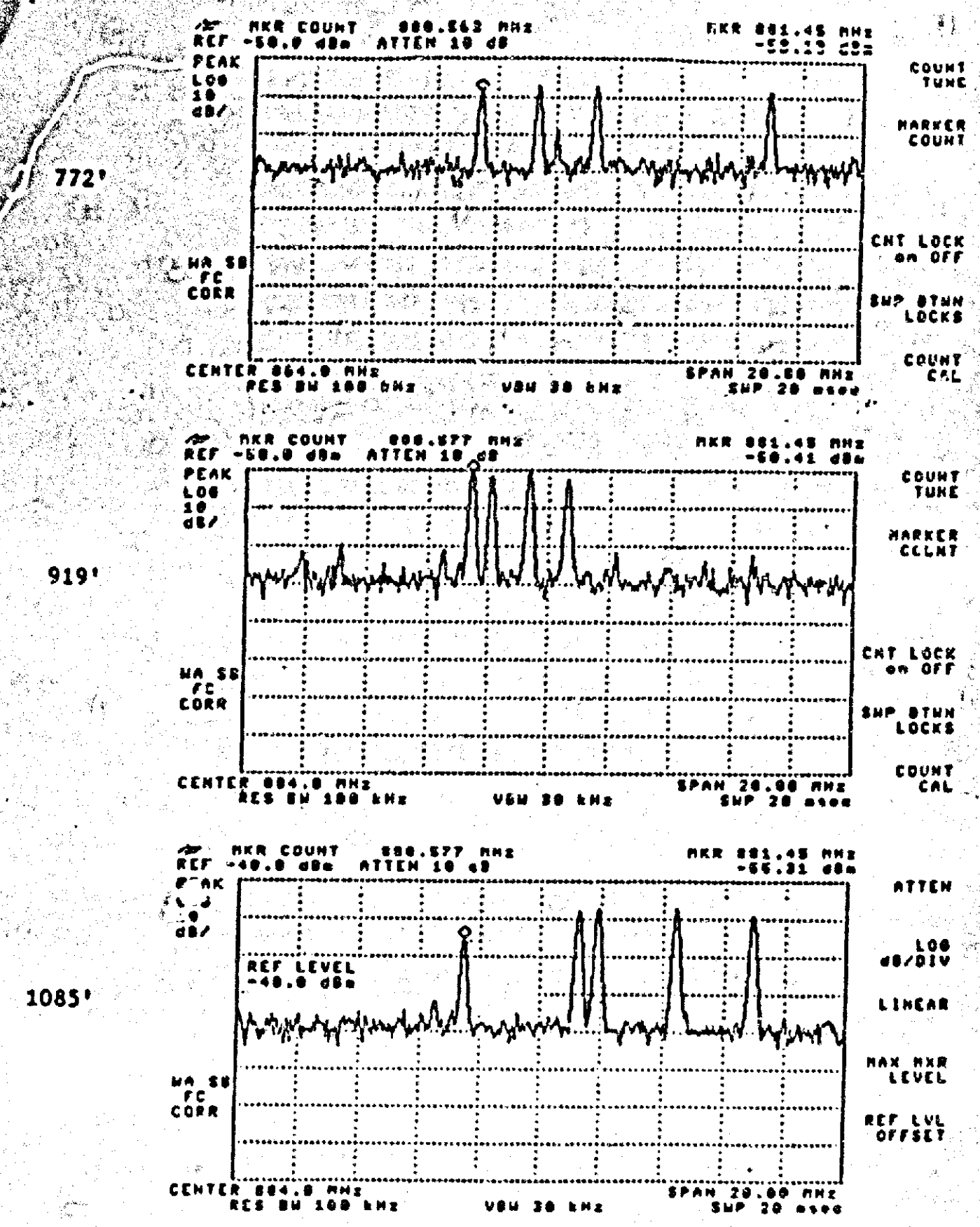


FIGURE 2

BALTIMORE COUNTY, MARYLAND

INTER-OFFICE CORRESPONDENCE

Mr. J. Robert Haines
TO: Zoning Commission
FROM: Norman E. Gerber, AICP
Zoning Petitions No. 88-245-A, 88-245-B
SUBJECT: 88-245-A, 88-245-B, 88-245-C, 88-245-D

There are no comprehensive planning factors requiring comment on this petition.

Norman E. Gerber
Norman E. Gerber, AICP
Director

NEG:JGH:dme

cc: Ms. Shirley M. Hess, Legal Assistant, People's Counsel
File

Baltimore County
Fire Department
Towson, Maryland 21204-2536
494-4500

September 11, 1987

J. Robert Haines
Zoning Commissioner
Office of Planning and Zoning
Baltimore County Office Building
Towson, MD 21204

Re: Property Owner: Edrich Farms, Inc., et al

Location: 1545' N. Old Court Road, 3500' SW Ridge Road

Item No.: 91

Zoning Agenda: Meeting of 9/15/87

Gentlemen:

Pursuant to your request, the referenced property has been surveyed by this Bureau and the comments below marked with an "X" are applicable and required to be corrected or incorporated into the final plans for the property.

- () 1. Fire hydrants for the referenced property are required and shall be located at intervals of _____ feet along an approved road in accordance with Baltimore County Standards as published by the Department of Public Works.
- () 2. A second means of vehicle access is required for the site.
- () 3. The vehicle dead end condition shown at _____ EXCEEDS the maximum allowed by the Fire Department.
- () 4. The site shall be made to comply with all applicable parts of the Fire Prevention Code prior to occupancy or beginning of operation.
- () 5. The buildings and structures existing or proposed on the site shall comply with all applicable requirements of the National Fire Protection Association Standard No. 101 "Life Safety Code," 1976 edition prior to occupancy.
- () 6. Site plans are approved, as drawn.
- (X) 7. The Fire Prevention Bureau has no comments at this time.

REVIEWER: *John F. O'Neill* Noted and Approved: *John F. O'Neill*
Planning Bureau Fire Prevention Bureau
Special Inspection Division

BALTIMORE COUNTY, MARYLAND
INTER-OFFICE CORRESPONDENCE

TO: Ann M. Nastarowicz Date: February 5, 1988

FROM: J. James Dieter, Special Asst.
Environmental Protection & Resource Mgmt.

SUBJECT: Petition for Special Hearing
Edrich Farms-Petitioner
Case No. 88-245-SPH

The Environmental Impact Statement and additional information received from Robert T. Voss, P.E. of Bell Atlantic Mobile Systems has been reviewed by Mr. Robert C. Merrey, Jr. of the Department of Environmental Protection and Resource Management. His comments are included in the attached memo.

This Department has no objection to the proposed site plan amendments provided the written confirmation of verbal information received from Mr. Voss is included in the E.I.S.

JJD:pmb

attachment

James E. Dyer, Esquire
Zoning Supervisor
1st Floor
County Office Building
Towson, Maryland 21204
Case No. 88-245-SPH

Enclosed for your review are copies of the following materials on the subject matter:

- 1) Petition for Special Hearing
- 2) Plan of Property
- 3) Environmental Impact Statement

As previously discussed, no Zoning Advisory Committee comments have been received regarding the subject case. It would be appreciated if you would review the enclosed materials and submit any comments at your earliest convenience so that a decision on this matter can be rendered.

Thank you for your prompt attention to this matter and if you have any questions on the subject, please do not hesitate to call me.

AMH:js
cc: Robert A. Hoffman, Esquire
Cook, Howard, Downes & Tracy
210 Allegheny Avenue, Towson, Md. 21204

Robert A. Hoffman, Esquire
Cook, Howard, Downes & Tracy
210 Allegheny Avenue
Towson, Maryland 21204
Case No. 88-245-SPH

Dear Mr. Hoffman:
Upon receipt of written comments from the Health Department's Environmental Protection and Resource Management Division, I will forward a copy of same to you for your review. If the comments are adverse to the Petitioner, an opportunity to respond either orally or in writing will be provided.

Thank you for your consideration in this matter and if you have any questions on the subject, please do not hesitate to call me.

Very truly yours,

Ann M. Nastarowicz
Deputy Zoning Commissioner
of Baltimore County

PURPOSE AND NECESSITY

BLT-FUU - Woodlawn, Maryland
Height Increase to 275 Feet
Existing Height 150 Foot Monopole

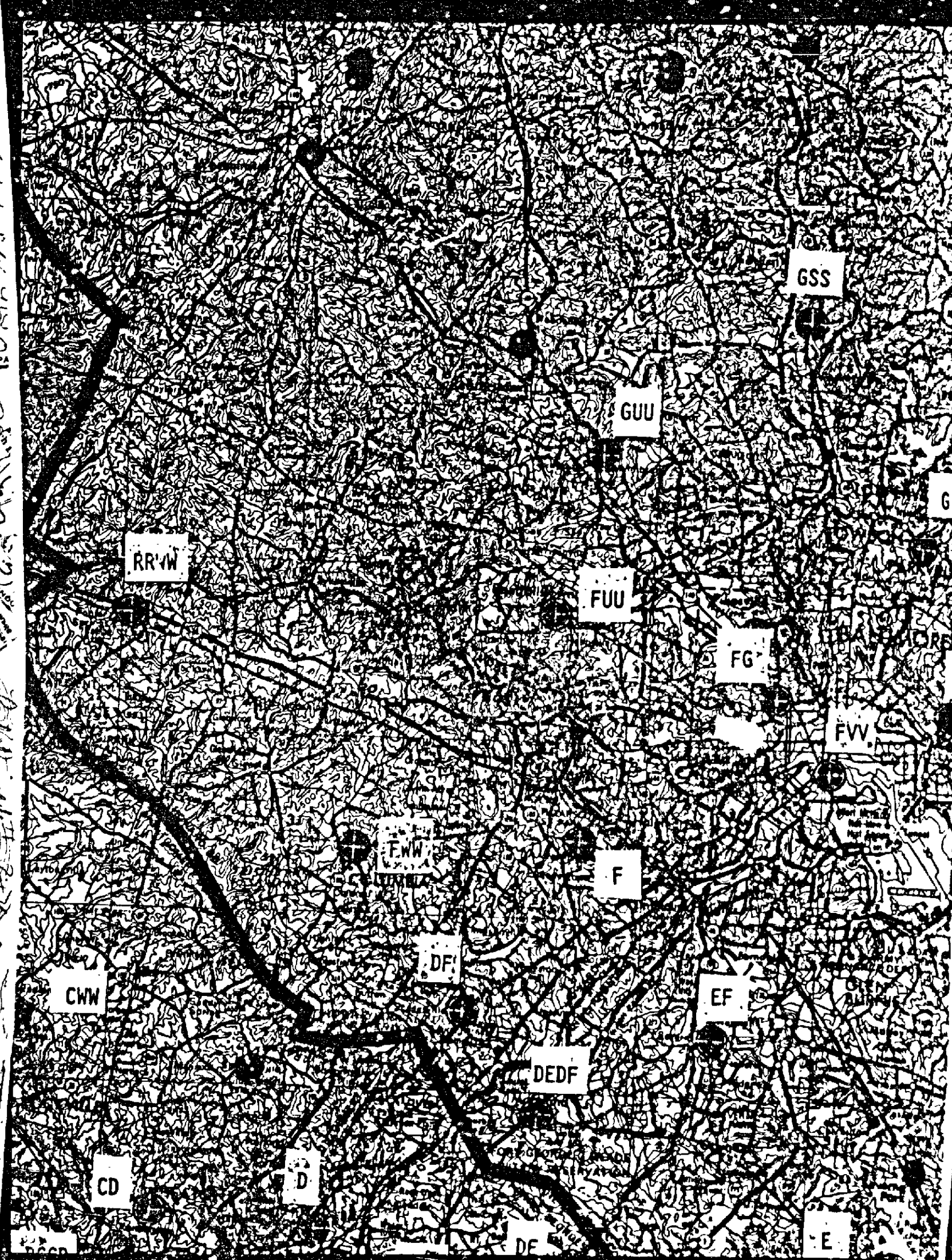
A one hundred twenty five foot (125') increase in height is required to provide adequate coverage along the new Northwest Expressway (Interstate 795) between Owings Mills and the (Interstate 695) along with other adjoining roadways.

In addition, a number of nearby communities to the north and west of the existing cell have poor or no cellular service. This includes the areas of Beltsouth, Delight, Tyler, Holbrook, Wards Chapel, and the Owings Mills business area.

The proposed height addition will also improve service along portions of Interstate 70 and Baltimore National Pike (Route 40) west of the Beltway.

Our computerized coverage predictive tools have indicated that one hundred twenty five feet (125') of added tower height is required to achieve an acceptable level of cellular coverage.

PETITIONER'S
EXHIBIT 5



LAW OFFICES
COOK, HOWARD, DOWNES & TRACY
210 ALLEGHENY AVENUE
P.O. BOX 5517
TOWSON, MARYLAND 21204

JAMES H. COOK
JOHN B. HOWARD
DAVID D. DOWNES
DANIEL O. TRACY, JR.
JOHN A. SMITH, JR.
JOSEPH E. WICK, JR.
HENRY B. PECK, JR.
HERBERT R. O'CONNOR, JR.
THOMAS L. HUDSON
C. CAREY DELEY, JR.
W. NINA WILDE
GEORGE H. REYNOLDS, JR.
ROBERT A. HOFFMAN
CYNTHIA M. HARRIS

HAND DELIVERY

September 21, 1987

James E. Dyer,
Zoning Supervisor
1st Floor
County Office Building
Towson, Maryland 21204

Re: Bell Atlantic Mobile Systems, Inc., Petitioner
Petition for Special Hearing
Item No.: 91

Dear Mr. Dyer:

Petitioner in the above-referenced case seeks to amend the existing site plan and special exception granted in the Zoning Commissioner Case No. 84-204-X by erecting a taller tower to better serve the surrounding area. It is submitted that gaining adequate coverage of the surrounding area for mobile communications is in the public interest and welfare.

Therefore, Petitioner respectfully requests that an expedited hearing be set on this matter.

Yours truly,

Robert A. Hoffman

RAH:bw
cc: Harry H. Fischer
Robert T. Voss, P.E., L.S.
Martin H. Freeman, Esquire

RECEIVED
SEP 22 1987
ZONING OFFICE



Baltimore County, Maryland
PEOPLE'S COUNSEL
RM. 213, COUNTY HOUSE
TOWSON, MARYLAND 21204
494-2188

RECEIVED
SEP 22 1987
ZONING OFFICE

PETER MAX ZIMMERMAN
Deputy People's Counsel

September 21, 1987

J. Robert Haines, Esquire
Zoning Commissioner of
Baltimore County
County Office Building
111 W. Chesapeake Avenue
Towson, Maryland 21204

RE: Edrich Farms, Inc., et al. Petitioners
Zoning Case Item No. 91

Dear Mr. Haines:

Please be advised that because one of the legal owners in the above-referenced case is an office client of Friedman and Friedman, Phyllis Cole Friedman, People's Counsel, is recusing herself from all involvement in the matter.

Peter Max Zimmerman, the Deputy People's Counsel, will have full responsibility for all decisions, and all pleadings and other communications should be directed solely to him.

Sincerely yours,

Phyllis Cole Friedman
Phyllis Cole Friedman
People's Counsel for Baltimore County

cc: John B. Howard, Esquire
Norman E. Gerber, Director, OPZ
Peter Max Zimmerman
Ethics Commission
PCF:sh

EWALD J. AUGUST & SHIRLEY A. AUGUST
6766/121

LEASE AREA

500' RADIUS

N 67° 02' 18" W, 200.0'

EDRICH FARMS, INC.
2629/293

FRANCIS G. HILL
1256/205

20' WIDE INGRESS-EGRESS
EASEMENT

ROAD
COURT
3500' ±

APPROXIMATE
E OF EXISTING ROAD

APPROXIMATE E
WINDSOR MILL
ROAD

APPROXIMATE
CENTERLINE

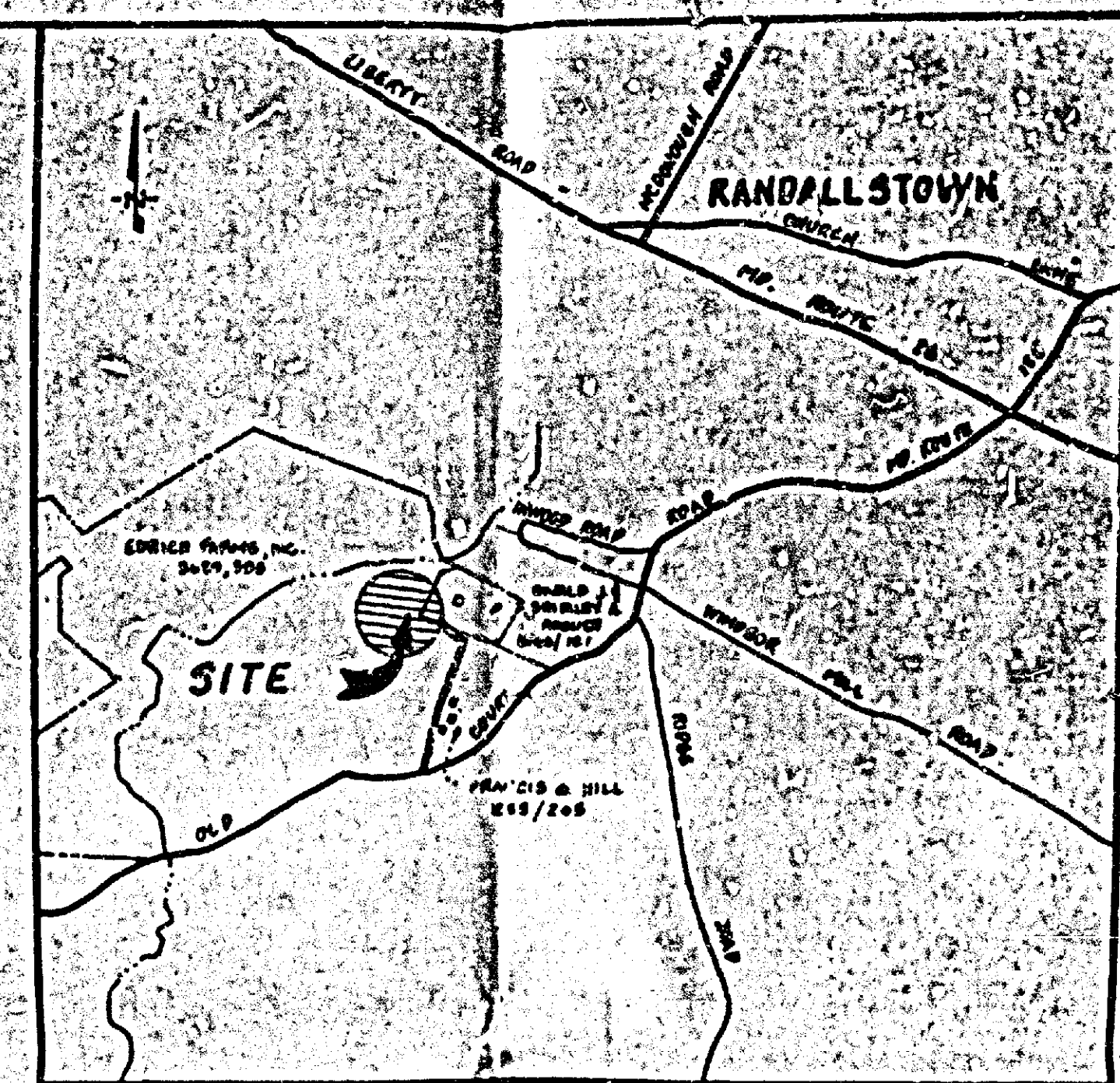
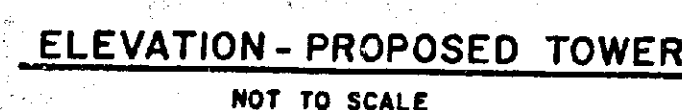
16

LOCATION PLAT 91
21.8166 ACRE LEASE AREA
ACROSS THE PROPERTY OF
EDRICH FARMS, INC. & EWALD J. AND SHIRLEY A. AUGUST
FOR
BELL ATLANTIC MOBILE SYSTEMS
OLD COURT ROAD
BALTIMORE COUNTY, MARYLAND
JUL 4 1994 39 04-
THIS PRINT
JUL 16 1994
MADE

KIDDE CONSULTANTS, INC.		
DATE	REVISION	BY
ENGINEERS, LAND PLANNERS & SURVEYORS		
8101 SANDY SPRING ROAD / LAUREL, MD. 20707		
(301) 725-0808 / 782-8086		
DESIGNED BY		
CHECKED BY		
DATE		
DATE JULY, 1994 SCALE 1" = 100'		



NOTE: TOWER WILL BE PRINTED PER FAA REQUIREMENTS AND LIT WITH A RED BEACON. NO FLASHING WHITE STROBE LIGHTS WILL BE USED.



Technical drawing of a bridge structure, likely a truss bridge, showing various components and dimensions. The drawing is divided into two main sections, each labeled with dimensions at the bottom: "10'-0\"/>




- BRIDGE VYU
- BRIDGE LINE FRAME
- TOP BAR
- BRACK BAR
- LINE POST
- TRUSS WIRE
- TRUSS ROD
- TRUSS POST
- POST FRAME
- BRIDGE POST FRAME
- BRACK
- 10'-0" VYU
- 10'-0" VYU
- BRIDGE POST FRAME
- BRIDGE POST FRAME

GENERAL NOTES

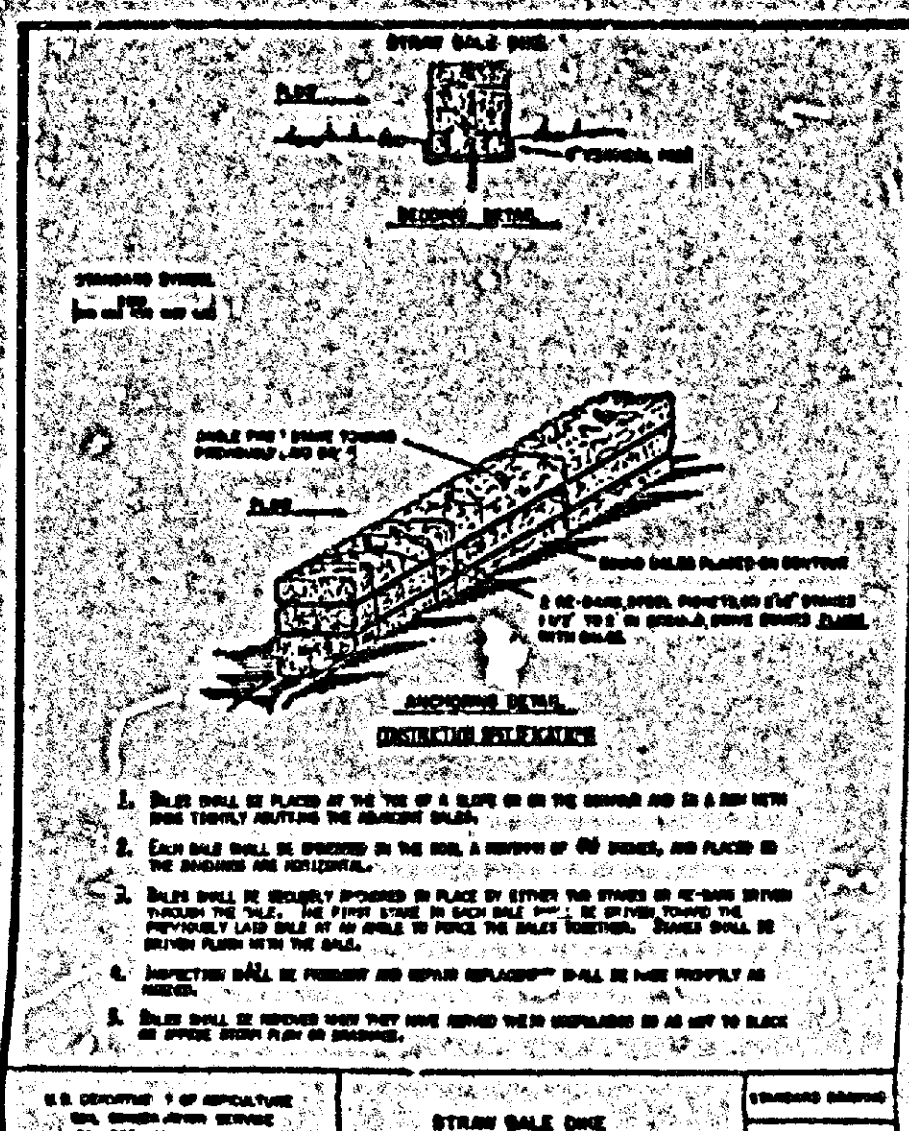
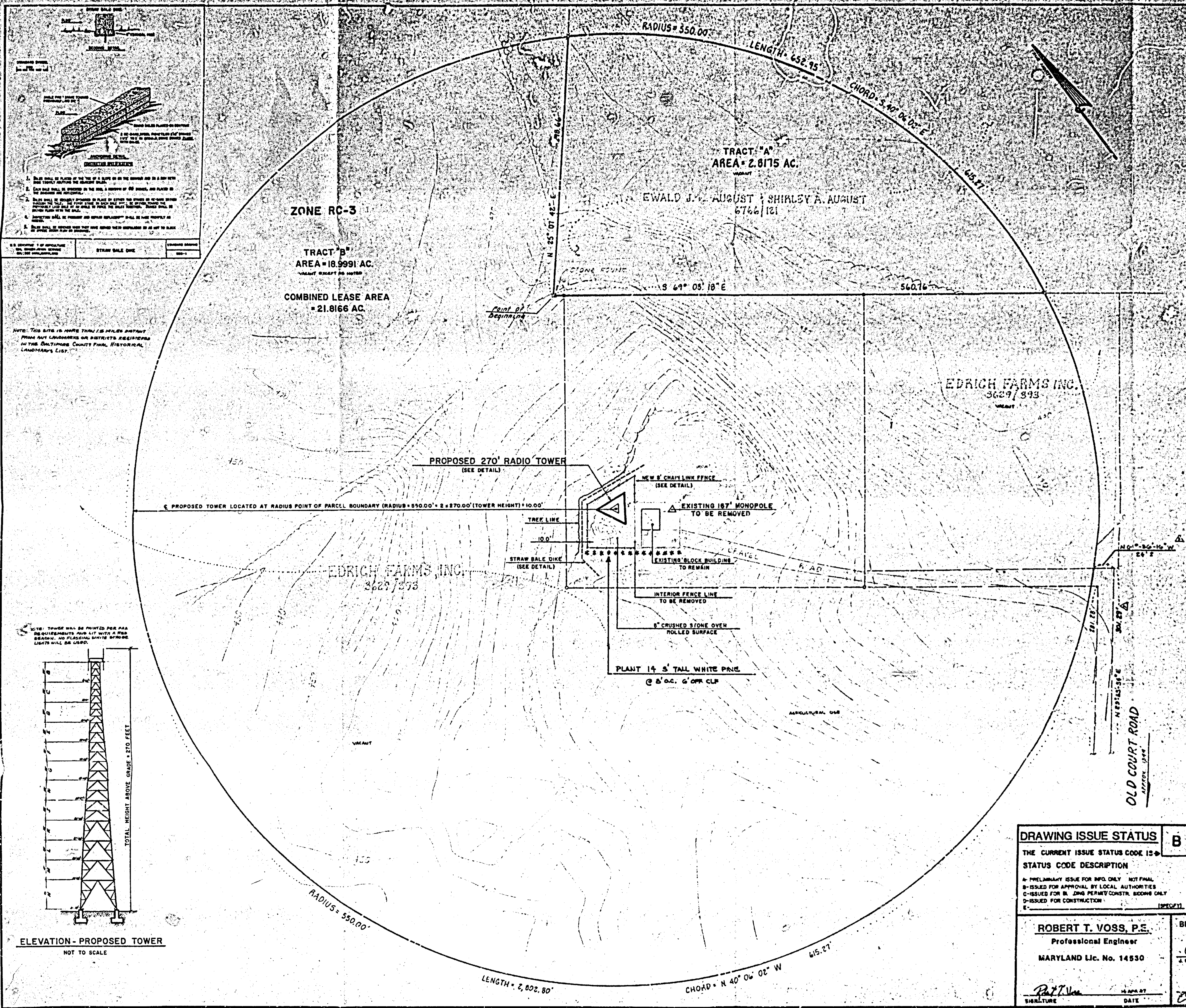
1. THIS DRAWING IS BASED ON A MOUNTAIN AND TOPOGRAPHICAL SURVEY PREPARED BY RIDGE CONSULTANTS, INC., LAUREL, MD. D. WAYNE KELLER, R.L.S., DATED 12 NOV 86, PROJECT NO. 1684039 04.
2. THE NEW CONSTRUCTION SHOWN ON THIS DRAWING CONSISTS OF RAISING A NEW 250 FOOT HIGH TOWER WITH A 17 FOOT HIGH PLATFORM AND WHIP ANTENNAS, WITH THE TOTAL HEIGHT ABOVE GRADE NOT TO EXCEED 270 FEET. THE EXISTING 167 FOOT HIGH MONOPOLIZED PLATFORM WILL BE REMOVED FOLLOWING THE CONSTRUCTION OF THE NEW TOWER.
3. NO NEW UTILITIES WILL BE REQUIRED AS PART OF THIS PROJECT.
4. SOIL EROSION AND SEDIMENT CONTROL PROVISIONS WILL BE ENFORCED AS SHOWN ON THIS DRAWING. THE CONTRACTOR WILL BE RESPONSIBLE TO COMPLY WITH ANY AND ALL LOCAL EROSION CONTROL REQUIREMENTS. ALL EXCESS FILL AND UNUSED BUILDING MATERIALS WILL BE REMOVED FROM THE SITE AT COMPLETION OF THE PROJECT.

REV. NO.	DATE	DESCRIPTION	BY	STATUS
3	10 JUL 87	REVISE SUMMARY DATA	MTV	S
2	27 JUL 87	REVISE PROPOSED TITLE - ADD TITLE SHEET	X10	S
1	27 MAY 87	ADD NOTES, REVISE PROPOSED TITLE	MTV	S
0	10 JUL 87	ISSUED FOR ZONING BOARD REVIEW	MTV	D

•  **Bell Atlantic** Mobile Systems
180 MOUNT AIRY ROAD, P.O. BOX 405
BASKING RIDGE, N.J. 07920

DRAWING ISSUE STATUS		B	PROJECT: CELLULAR TELEPHONE ANTENNAE SITE PROPERTY OF CEPKICH FARMS INC. # EWALD J. AUGUST & WIFE OLD COURT ROAD WOODLAWN, BALTIMORE COUNTY, MARYLAND	
THE CURRENT ISSUE STATUS CODE IS → STATUS CODE DESCRIPTION			DRAWING TITLE: PLAT TO ACCOMPANY PETITION FOR SPECIAL HEARING	
A- PRELIMINARY ISSUE FOR INFO. ONLY NOT FINAL B- ISSUED FOR APPROVAL BY LOCAL GOVERNMENTS C- ISSUED FOR BUILDING PERMITS/CONSTR. BIDDING ONLY D- ISSUED FOR CONSTRUCTION E- (SPECIFY)				
ROBERT T. VOSS, P.E. Professional Engineer MARYLAND Lic. No. 14530 		BELL ATLANTIC MOBILE SYSTEMS  J. PLANTE - DIRECTOR OF ENGINEERING  J. PLANTE - GENERAL MGR. IMPLEMENTATION		
SIGNATURE _____ DATE 14 APR 87		DRAWN BY: RTV/KCI SURVEY DATE: 11-18-86 PRINT DATE: JUL 15-1987 CHECKED BY: RTV/JG FIRST ISSUE: 4-13-87 DRAWING NO.: A02 SCALE: 1" = 50' PROJECT NO. C&T-F,UU		

DLT-F,JI-ADY-DANS-OM-B3
SHEET NO. 2 OF 2



ZONE RC-3

TRACT "B"
AREA = 18.9991 AC
VACANT EXCEPT AS NOTED

COMBINED LEASE AREA
= 21.8166 AC

TRACT "A"
AREA = 2.8175 AC
VACANT

EWALD J. AUGUST & SHIRLEY A. AUGUST
6744/121

EDRICH FARMS INC.
3629/393

PROPOSED 270' RADIO TOWER
(SEE DETAIL)

EXISTING 167' MONOPOLE
TO BE REMOVED

NEW 8' CHAIN LINK FENCE
(SEE DETAIL)

EXISTING BLOCK BUILDING
TO REMAIN

INTERIOR FENCE LINE
TO BE REMOVED

6' CRUSHED STONE OVER ROLLED SURFACE

PLANT 14' 5" TALL WHITE PINE
@ 5' O.C. 6' OFF CLIP

STRAW BALE DIKE
(SEE DETAIL)

TREE LINE

POINT OF BEGINNING

OLD COURT ROAD

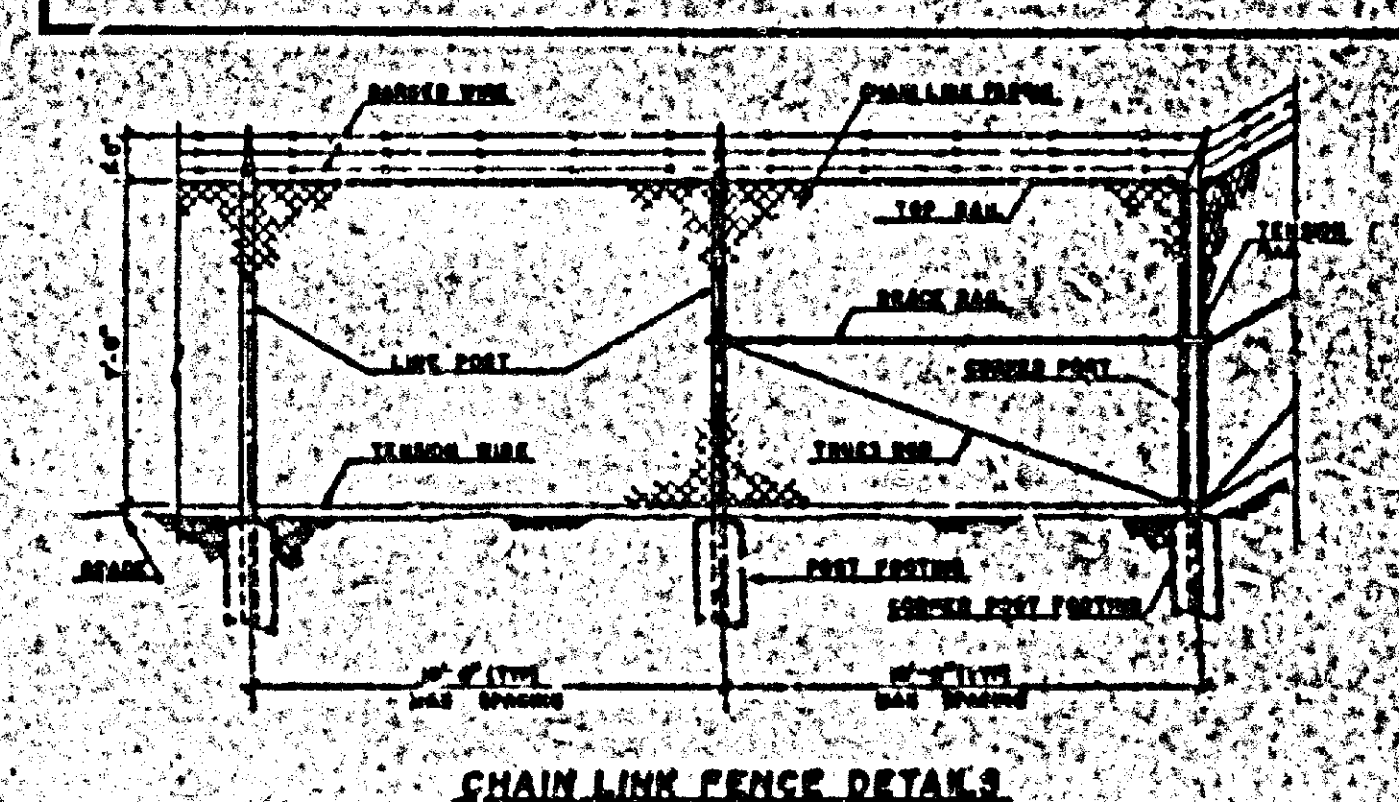
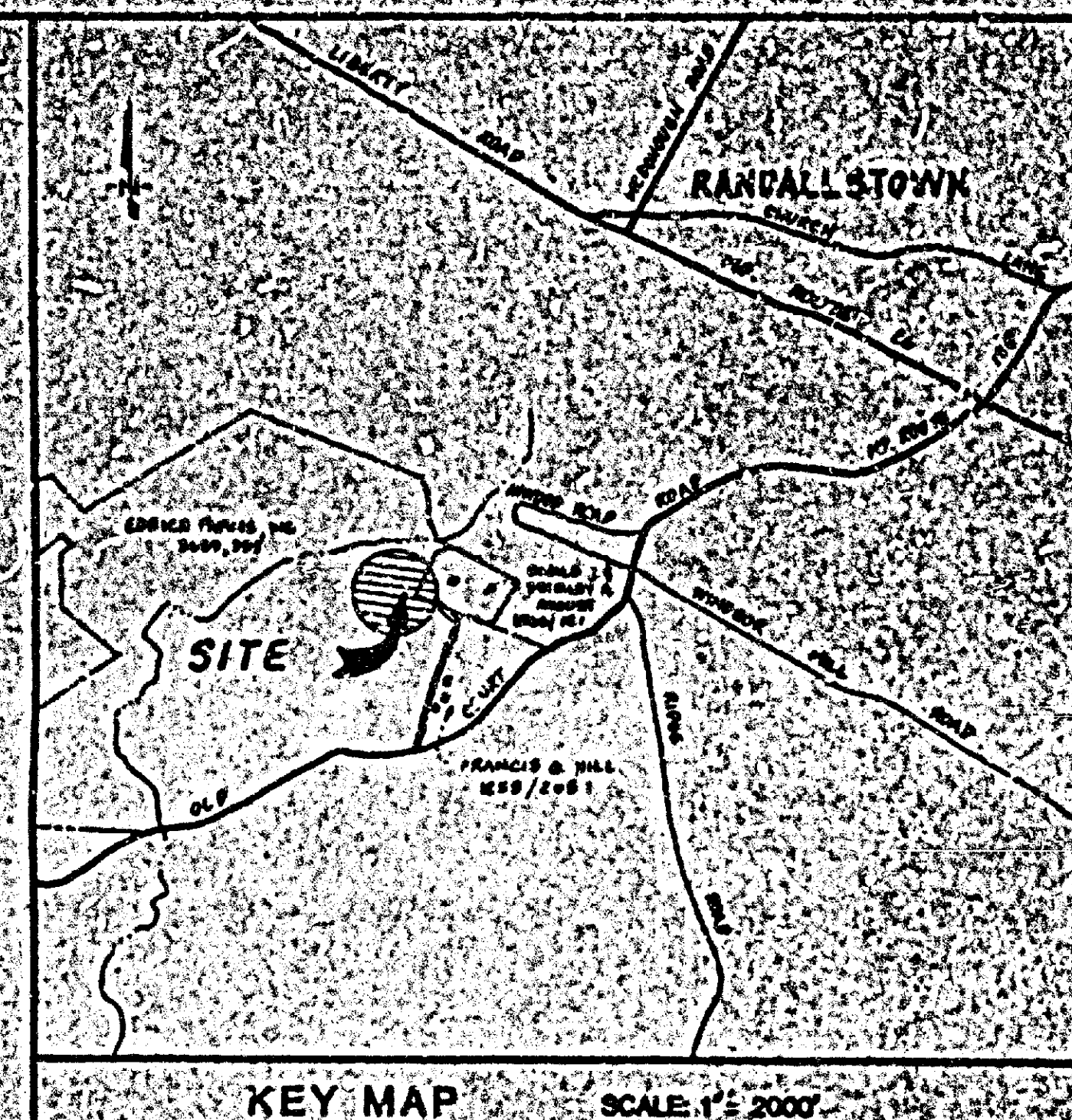
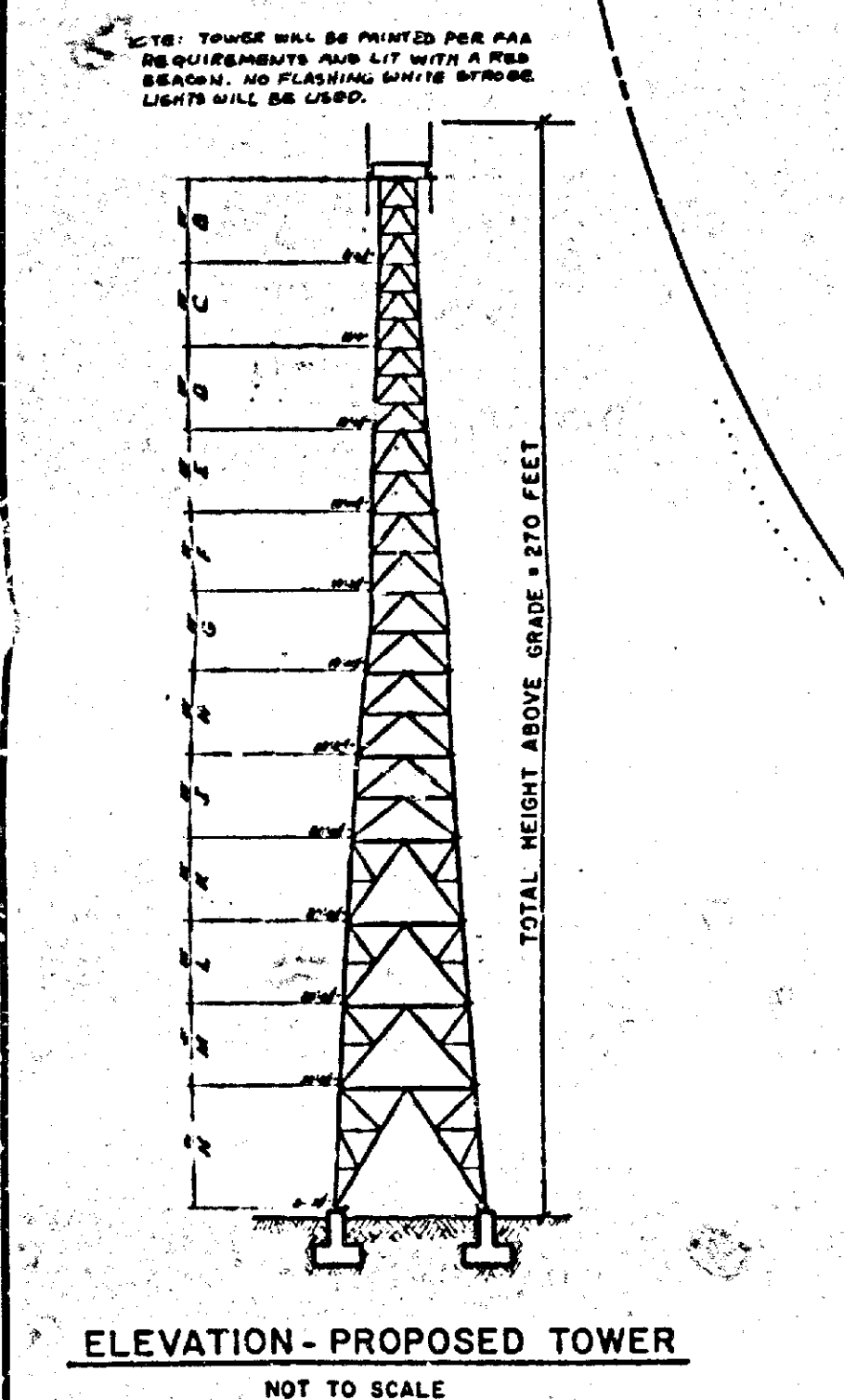
RADIUS = 350.00'
LENGTH = 652.95'
CHORD = 540' 06" 02" E

RADIUS = 550.00'
LENGTH = 2,802.80'
CHORD = N 40° 06' 02" W

EDRICH FARMS INC.
3629/393

AGRICULTURAL USE

NOT TO SCALE



GENERAL NOTES

- THIS DRAWING IS BASED ON A SECONDARY AND TOPOGRAPHIC SURVEY PREPARED BY KIDS CONSULTANTS, INC., LAUREL, MD, D. WAYNE MILLER, L.S., DATED 12 NOV 85, PROJECT NO. 1684037-01.
- THE NEW CONSTRUCTION SHOWN ON THIS DRAWING CONSISTS OF RAISING A NEW 270 FOOT TOWER WITH A 12 FOOT HIGH PLATFORM AND WITH ANTENNAS WITH THE TOTAL HEIGHT ABOVE GRADE NOT TO EXCEED 270 FEET. THE EXISTING 157 FOOT HIGH MONOPOLE AND PLATFORM WILL BE REMOVED FOLLOWING THE CONSTRUCTION OF THE NEW TOWER.
- NO NEW UTILITIES WILL BE REQUIRED AS PART OF THIS PROJECT.
- SOIL EROSION AND SEDIMENT CONTROL PROVISIONS WILL BE ENFORCED AS SHOWN ON THIS DRAWING. THE CONTRACTOR WILL BE RESPONSIBLE TO COMPLY WITH ALL AND ALL LOCAL EROSION CONTROL REQUIREMENTS. ALL EXCESS FILL AND UNUSED BUILDING MATERIALS WILL BE REMOVED FROM THE SITE AT COMPLETION OF THE PROJECT.

REV. NO.	DATE	DESCRIPTION	BY	STATUS
1	10 JUL 87	POWER DELINEATION DATA	RTV	D
2	07 JUL 87	REVISED DELINEATION DATA - 400' TOWER SHEET	RTV	D
3	27 MAY 87	REVISED DELINEATION DATA	RTV	D
4	14 APR 87	ISSUED FOR ZONING BOARD REVIEW	RTV	D

④ Bell Atlantic Mobile Systems
180 MOUNT AIRY ROAD, P.O. BOX 405
BASKING RIDGE, N.J. 07920
Petitioner's Exhibit 4

DRAWING ISSUE STATUS **B**

THE CURRENT ISSUE STATUS CODE IS **B**

STATUS CODE DESCRIPTION

A- PRELIMINARY ISSUE FOR INFO ONLY NOT FINAL
B- ISSUED FOR APPROVAL BY LOCAL AUTHORITIES
C- ISSUED FOR BIDDING PERMIT CONSTRUCTION BIDDING ONLY
D- ISSUED FOR CONSTRUCTION

DRAWING TITLE
LANDSCAPE PLAN
PLAT TO ACCOMPANY PETITION FOR
SPECIAL HEARING

ROBERT T. VOSS, P.E.
Professional Engineer
MARYLAND Lic. No. 14530

BELL ATLANTIC MOBILE SYSTEMS
PROJECT: CELLULAR TELEPHONE ANTENNAE SITE
PROPERTY OF EDRICH FARMS INC. & EWALD J. AUGUST & WIFE
OLD COURT ROAD
WOODLAWN, BALTIMORE COUNTY, MARYLAND

DRAWN BY: RTV/KCI
CHECKED BY: RTV/JG
SCALE: 1" = 50'

SURVEY DATE: 11-12-86
PRINT DATE: 4-13-87
DRAWING NO.: A02

SIGNATURE: *Robert T. Voss*
DATE: 14 APR 87

SIGNATURE: *John J. Kelly*
DATE: 14 APR 87